

Post-Visit Report for WIND CAVE NATIONAL PARK Mammal Inventory, Bat Inventory – August 2004

Wind Cave National Park was surveyed for bats the nights of 9-13 August 2004. Mist nets were at three locations along Beaver Creek, in Reeve's Gulch, and at Herp Pond as described in further detail below. Surveyors were Dr. Cheryl A. Schmidt and Ms. Shauna R. Marquardt, with the very welcome assistance of Mr. Dan Foster (WICA) on the last three nights.

Mist Net Effort and Results

Summarized in the following pages.

Acoustic Surveys

Acoustic surveys were conducted at each mist net site described in the following pages. Travel and search calls, as well as feeding buzzes, were recorded and will be analyzed this fall.

Future Work

Acoustic recordings will be statistically analyzed for assignment to species. The results will be included in the Final Report for the Mammal Inventory.

Fecal samples were collected whenever possible. Contents of the samples will be assigned to order where possible to establish baseline information on the diets of these bats during this period of their active season. The fecal analyses are not expected to be complete prior to Spring 2005, but a report will be furnished to the park upon completion.

Site: Beaver Creek-1

GPS Coordinates: 13T 0622487 4826744

Date Worked: 9 August 2004

<u>Species</u>	<u>Common Name</u>	<u>Number Caught</u>	<u>Gender; Age class, reproductive condition</u>
<i>Lasionycteris noctivagans</i>	Silver-haired bat	1	Female; non-lactating

TOTAL = 1 bat

Site: Beaver Creek-2

GPS Coordinates: 13T 0622843 4826415

Elevation: 4171 ft asl

Date Worked: 10 August 2004

<u>Species</u>	<u>Common Name</u>	<u>Number Caught</u>	<u>Gender; Age class, reproductive condition</u>
<i>Lasionycteris noctivagans</i>	Silver-haired bat	1	Female; adult, non-lactating
<i>Lasiurus cinereus</i>	Hoary bat	1	Male; juvenile
<i>Myotis volans</i>	Long-legged myotis	1	Female; adult, non-lactating

TOTAL = 3 bats

Site: Beaver Creek-3

GPS Coordinates: 13T 0623519 4826748

Date Worked: 11 August 2004

<u>Species</u>	<u>Common Name</u>	<u>Number Caught</u>	<u>Gender; Age class, reproductive condition</u>
<i>Eptesicus fuscus</i>	Big brown bat	7	3 Male; juvenile 2 Female; juvenile 1 Male; adult, non-scrotal 1 Female; adult, lactating
<i>Lasionycteris noctivagans</i>	Silver-haired bat	2	1 Male; adult, non-scrotal 1 Female; adult, lactating
<i>Myotis lucifugus</i>	Little brown bat	1	Male; adult, scrotal
<i>Myotis volans</i>	Long-legged myotis	3	1 Male; juvenile 1 Male; adult 1 Female; adult, lactating
TOTAL = 13 bats			

Site: Reeve's Gulch

GPS Coordinates: 13T 0622258 4828338

Date Worked: 12 August 2004

<u>Species</u>	<u>Common Name</u>	<u>Number Caught</u>	<u>Gender; Age class, reproductive condition</u>
<i>Eptesicus fuscus</i>	Big brown bat	3	1 Male; adult 2 Female; adult, lactating
<i>Lasiurus borealis</i> *	Red bat	1	Female; adult, non-lactating
<i>Myotis lucifigus</i>	Little brown bat	1	Male; adult, non-scrotal

*First documentation of this species in Wind Cave NP.

TOTAL = 5 bats

Site: Herp Pond

GPS Coordinates: 13T 0620678 4820261

Date Worked: 13 August 2004

<u>Species</u>	<u>Common Name</u>	<u>Number Caught</u>	<u>Gender; Age class, reproductive condition</u>
<i>Eptesicus fuscus</i>	Big brown bat	20	12 Male; juvenile 5 Female; juvenile 1 Male; adult, scrotal 2 Female; adult, lactating
<i>Lasionycteris noctivagans</i>	Silver-haired bat	2	1 Female; juvenile 1 Male; juvenile
<i>Lasiurus borealis</i>	Red bat	1	Female; adult, non-lactating
<i>Myotis ciliolabrum</i>	Small-footed bat	2	2 Female; adult, lactating
<i>Myotis lucifigus</i>	Little brown bat	1	Male; adult, non-scrotal
<i>Myotis septentrionalis</i>	Northern long-eared myotis	1	Female; adult, lactating
<i>Myotis thysanodes</i>	Fringe-tailed bat	2	1 Female; adult, non-lactating 1 Female; adult, lactating
<i>Myotis volans</i>	Long-legged myotis	13	1 Male; adult, non-scrotal 1 Male; juvenile 3 Female; juvenile 2 Female; adult, non-lactating 6 Female; adult, lactating
TOTAL = 42 bats			